

Title (en)
Structural support

Title (de)
Tragstruktur

Title (fr)
Structure de support

Publication
EP 1079044 B1 20100811 (EN)

Application
EP 00307351 A 20000825

Priority
GB 9920091 A 19990825

Abstract (en)
[origin: EP1079044A2] Method of pre-stressing two spaced components (2,10), such as a structural steel member (2) and a flat roof panel (10), wherein an expandable element (20'), preferably in the form of an inflatable tube of given length, is inserted in the space between the two components (2,10) and is expanded to generate a force acting between the two components (2,10), to pre-stress at least one of the components (2,10). Once the two components (2,10) have been pre-stressed, rigid spacing means (6) may be placed in at least part of the remainder of the space not occupied by the non-expanded element (20') and in engagement with both components (2,10). An inflatable tube (20) may be used as the expandable element (20') and may have its opposed ends (21) sealed in a fluid-tight manner by folding and clamping (22). <IMAGE>

IPC 8 full level
E04G 23/02 (2006.01); **E04G 21/12** (2006.01)

CPC (source: EP)
E04G 21/12 (2013.01); **E04G 23/0218** (2013.01)

Citation (examination)
US 3822861 A 19740709 - SCOTT S

Cited by
CN106545162A; JP2017071996A; CN109930839A

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1079044 A2 20010228; EP 1079044 A3 20021106; EP 1079044 B1 20100811; AT E477381 T1 20100815; DE 60044798 D1 20100923; GB 0021100 D0 20001011; GB 2355483 A 20010425; GB 2355483 B 20031224; GB 9920091 D0 19991027

DOCDB simple family (application)
EP 00307351 A 20000825; AT 00307351 T 20000825; DE 60044798 T 20000825; GB 0021100 A 20000825; GB 9920091 A 19990825